EXPLORE REPORT
1988

Ontario Ministry of Northern Development and Mines

Hugh P. O'Neil, Minister of Mines

EXPLORE REPORT
1988

Mineral Exploration and Development Work
Performed in Ontario

Base on data received as of November, 1989

Information and Statistics Section
Mineral Development and Lands Branch
Ministry of Northern Development and Mines

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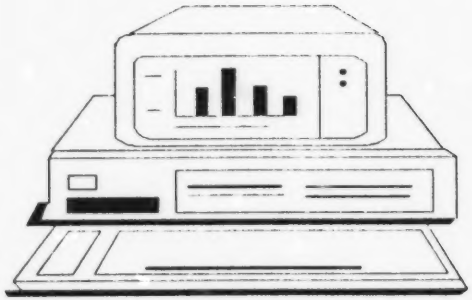

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1988 SUMMARY

Mineral exploration in Ontario continued to remain strong in 1988. Exploration and development expenditures totaled over $646 million which represents an increase of 2% from 1987 expenditures of $632 million.

Of this total, some $332 million was spent on general and minesite exploration. This represents an increase of 15% over the previous year.

Mineral exploration expenditures for precious metals totaled $289 million or 87% of total exploration dollars, $33 million or 10% for base metals and $11 million or 3% for other metals and minerals. The ratio of precious metals to base metals for exploration expenditures was 9:1 in 1988 and 7:1 in 1987.

The ratio of exploration to development expenditures increased from 0.8 in 1987 to 1.1 in 1988. This reflects a decrease in minesite development expenditures from $342 million in 1987 to $313 million in 1988 and the increase in exploration dollars.

The continuing high level of exploration in Ontario has resulted in the opening of three gold and two base metal mines during 1989.

In 1988, total exploration and development expenditures among the nine mining divisions were greatest in Sault Ste. Marie (22%) followed by Larder Lake (18%), Sudbury (17%) and Thunder Bay (13%). The largest increase in expenditures from 1987 was in Southern Ontario (+71%) reflecting increased exploration activity for graphite. Other mining divisions experiencing large increases in expenditures included Larder Lake (+28%) and Sault Ste. Marie (+28%).

In 1987, Ontario ranked second in total exploration and development expenditures after Quebec. Expenditures in Quebec represented 30% of Canada's total exploration and development dollars and 28% in Ontario.

DEFINITION OF EXPLORATION AND DEVELOPMENT EXPENDITURES

1. GENERAL EXPLORATION (OFF-PROPERTY) EXPENDITURES

   These expenditures represent all activities and support applied to the search for and delineation of mineral deposits on properties where no production is taking place. General exploration expenditures include airborne, surface and underground exploration costs including diamond drilling, geological, geochemical and geophysical work, trenching, stripping, line cutting and other surface work; and other underground work; wages and salaries for filed crew and all costs of contracted field work.

2. MINESITE (ON-PROPERTY) EXPLORATION EXPENDITURES

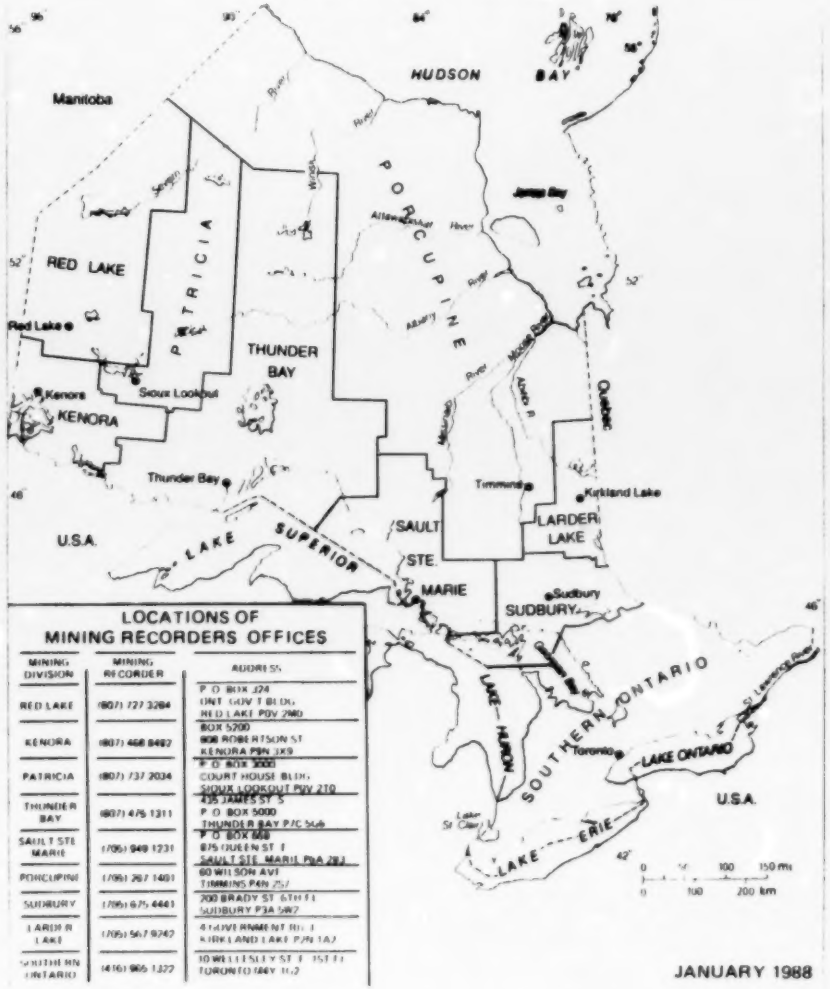
   These expenditures represent all activities and support applied to the search for and delineation of an additional mineral deposit (a separate mine) on properties in production or committed to production. Minesite exploration expenditures include all expenditures in the previous paragraph plus various services such as hoisting and ventilating.

3. MINESITE DEVELOPMENT EXPENDITURES

   These expenditures represent all work done to outline, block-out and gain access to ore and prepare it for production, on properties in production or committed to production. These include drilling and excavations to extend proven ore in a producing mine. Minesite development expenditures include costs for stripping, shafts, cross-cuts, drifts, ramps, raises, diamond drilling, etc. and various services such as hoisting and ventilating.

Source: Statistics Canada

Location Map of Mining Divisions in Ontario



LOCATIONS OF MINING RECORDERS OFFICES

MINING DIVISION	MINING RECORDER	ADDRESS
RED LAKE	(807) 727 3284	P O BOX 324 ONT GOVT BLDG RED LAKE P0V 2M0
KENORA	(807) 468 8492	BOX 5200 808 ROBERTSON ST KENORA P9N 3X9
PATRICIA	(807) 737 2034	P O BOX 3000 COURT HOUSE BLDG SIOUX LOOKOUT P8V 2T0
THUNDER BAY	(807) 475 1311	435 JAMES ST S P O BOX 5000 THUNDER BAY P7C 5G6
SAULT STE MARIE	(705) 949 1231	P O BOX 668 875 QUEEN ST E SAULT STE MARIE P6A 2Z1
PORCUPINE	(705) 267 1401	60 WILSON AVE TIMMINS P4N 2S7
SUDBURY	(705) 675 4441	200 BRADY ST 6TH FL SUDBURY P3A 5W7
LARDER LAKE	(705) 567 9242	4 GOVERNMENT RD E KIRKLAND LAKE P2N 1A7
SOUTHERN ONTARIO	(416) 965 1272	10 WELLESLEY ST E 1ST FL TORONTO M4Y 1G2

JANUARY 1988

Source: Ministry of Northern Development & Mines

List of Commodities/Commodity Groups

Reported As:	Description	Reported As:	Description
AU	Gold	REE	Rare Earth Elements
AG	Silver	SI	Silica
AU,AG	Gold, Silver	NACL	Salt
AU,PGM	Gold, Platinum Group Metals	GF	Graphite
AU,BM	Gold, Base Metals	IND MIN	Industrial Minerals
BM	Base Metals	CC,MS	Calcite, Magnesite, Talc
NI,CU	Nickel, Copper	AU,DI	Gold, Diamond
PGM	Platinum Group Metals	AMY	Amethyst
FE	Iron	VARIOUS	Various Minerals/ Metals
U,Y	Uranium, Yttrium		

ABBREVIATIONS USED IN THIS REPORT

Ken.	Kenora Mining Division
Pat.	Patricia Mining Division
R.L.	Red Lake Mining Division
T.B.	Thunder Bay Mining Division
Porc.	Porcupine Mining Division
S.S.M.	Sault Ste. Marie Mining Division
L.L.	Larder Lake Mining Division
Sud.	Sudbury Mining Division
S.O.	Southern Ontario Mining Division
P.W.	Province Wide
p	Preliminary

STATISTICAL TABLES

TOTAL EXPLORATION AND DEVELOPMENT
EXPENDITURES IN ONTARIO
(IN CURRENT DOLLARS)
1981 - 1988p

	TOTAL	GENERAL EXPLORATION	MINESITE EXPLORATION	MINESITE DEVELOPMENT
	($)	($)	($)	($)
1988p	646,174,433	282,299,983	49,917,156	313,957,294
1987	631,779,488	243,781,599	45,937,175	342,060,714
1986	357,913,442	99,479,944	24,385,587	234,047,911
1985	285,514,464	82,379,194	11,917,683	191,217,587
1984	270,282,158	55,872,952	9,312,938	205,096,268
1983	171,384,988	52,434,213	14,692,989	104,257,786
1982	106,390,043	31,227,498	7,141,352	68,021,193
1981	152,010,941	41,923,880	9,191,238	100,895,823

Source: Information and Statistics Section, MNDM

EXPLORATION AND DEVELOPMENT EXPENDITURES IN ONTARIO
IN CURRENT DOLLARS
1987-1988p

	GENERAL EXPLORATION			MINESITE EXPLORATION			MINESITE DEVELOPMENT		
	1988p ($)	1987 ($)	% CHANGE	1988p ($)	1987 ($)	% CHANGE	1988p ($)	1987 ($)	% CHANGE
DIAMOND DRILLING	124,965,075	124,428,837	0.4	17,060,581	23,556,496	-27.6	21,828,473	24,714,286	11.7
GEOCHEMICAL	10,625,198	9,635,771	10.3	765,931	1,690,211	-54.9			
GEOLOGY	22,987,924	17,174,009	33.9	1,301,371	10,760,044	-87.9			
GEOPHYSICAL	12,403,760	14,310,548	-13.2	322,927	149,475	116.0			
AIRBORNE GEOPHYSICS	4,520,456	4,859,965	-7.0	15,053	11,046	36.3			
ROCK WORK	56,183,378	40,829,824	37.6	22,970,731	1,865,023	1131.1			
SHAFTS							7,101,413	2,804,480	153.2
DRIFTS, CROSSCUTS							164,664,958	164,931,022	0.2
RAISES, DECLINES							44,771,116	74,444,495	-39.9
STRIPPING							8,609,296	9,129,630	-5.7
OTHER	50,614,192	32,542,645	55.5	7,480,562	7,904,880	-5.4	66,982,038	66,036,801	1.4
TOTAL EXPENDITURE	282,299,983	243,781,599	15.8	49,917,156	45,937,175	8.7	313,957,294	342,060,714	-8.2

Source: Information and Statistics Section, MNDM

EXPLORATION AND DEVELOPMENT EXPENDITURES FOR ONTARIO
IN CURRENT AND 1981 CONSTANT DOLLARS
(1981-1988p)

	TOTAL EXPENDITURES (CURRENT $)	TOTAL EXPENDITURES (1981 CONSTANT $)	TOTAL EXPLORATION EXPENDITURES (1981 CONSTANT $)	TOTAL DEVELOPMENT EXPENDITURES (1981 CONSTANT $)
1988p	646,174,433	508,398,452	261,382,485	247,015,967
1987	631,779,488	515,317,690	236,312,214	279,005,476
1986	357,913,442	299,258,731	103,566,497	195,692,233
1985	285,514,464	243,613,024	80,458,086	163,154,938
1984	270,282,158	236,881,821	57,130,491	179,751,330
1983	171,384,988	156,230,618	61,191,615	95,039,003
1982	106,390,043	100,367,965	36,197,028	64,170,937
1981	152,010,941	152,010,941	51,115,118	100,895,823

Source: Information and Statistics Section, MNDM

EXPLORATION AND DEVELOPMENT EXPENDITURES
BY METAL OR MINERAL SOUGHT IN ONTARIO
1987-1988p
(in Current Dollars)

	GENERAL EXPLORATION			MINESITE EXPLORATION			MINESITE DEVELOPMENT		
	1988p ($)	1987 ($)	% CHANGE	1988p ($)	1987 ($)	% CHANGE	1988p ($)	1987 ($)	% CHANGE
GOLD ONLY	222,133,449	192,925,290	15.1	33,808,922	29,113,680	16.1	131,160,727	134,907,208	-2.8
GOLD AND OTHER METALS INCLUDING SILVER	21,265,431	12,176,780	74.6	6,149,571	3,636,639	69.1	2,874,059	5,802,093	-50.5
BASE METALS	23,076,115	19,792,346	16.6	9,641,463	7,843,164	22.9	100,544,846	115,500,855	-12.9
PLATINUM GROUP METALS	5,159,478	11,810,777	-56.3	0	4,987,075	-100.0	0	0	
OTHER METALS AND INDUSTRIAL MINERALS	10,665,510	7,076,406	50.7	317,200	356,617	-11.1	79,377,662	85,850,558	-11.1
TOTAL	282,299,983	243,781,599	15.8	49,917,156	45,937,175	8.7	313,957,294	342,060,714	-8.2

Source: Information and Statistics Section, MNDM

EXPLORATION AND DEVELOPMENT EXPENDITURES IN ONTARIO
PRECIOUS METALS V.S. BASE METALS
1981 - 1988p

	PRECIOUS METALS				BASE METALS			
	GENERAL EXPLORATION	MINESITE EXPLORATION	MINESITE DEVELOPMENT	TOTAL	GENERAL EXPLORATION	MINESITE EXPLORATION	MINESITE DEVELOPMENT	TOTAL
	($)	($)	($)	($)	($)	($)	($)	($)
1988p	248,558,358	39,958,493	134,034,786	419,255,837	23,076,115	9,641,463	100,544,846	133,262,424
1987*	216,912,847	37,737,394	140,709,301	395,359,542	19,792,346	7,843,164	115,500,855	143,136,365
1986	84,177,343	18,339,087	69,705,941	172,222,371	11,885,830	6,000,260	89,572,705	107,458,795
1985	64,866,703	4,621,874	74,264,015	143,752,592	14,392,799	7,151,703	47,000,400	68,544,902
1984	46,173,739	5,600,855	92,897,540	144,672,134	6,477,514	3,523,929	37,955,274	47,956,717
1983	31,177,917	9,452,208	39,670,348	80,300,473	16,780,123	5,107,503	51,227,758	73,115,384
1982	15,473,725	4,220,587	13,913,557	33,607,869	13,267,004	2,732,349	31,818,413	47,817,766
1981	15,773,310	2,871,214	8,474,224	27,118,748	20,047,790	4,736,654	53,382,582	78,167,026

* Revised

Source: Information and Statistics Section, MNDM

TOTAL EXPLORATION AND DEVELOPMENT
EXPENDITURES IN ONTARIO
1988p VS 1987

	1988p ($)	1987 ($)	% Change
DIAMOND DRILLING	163,854,129	172,699,619	-5.1
GEOCHEMICAL	11,391,129	11,325,982	0.6
GEOLOGY	24,289,295	27,934,053	-13.0
GEOPHYSICAL	12,726,687	14,460,023	-12.0
AIRBORNE GEOPHYSICS	4,535,509	4,871,011	-6.9
ROCK WORK	79,154,109	42,694,847	85.4
SHAFTS	7,101,413	2,804,480	153.2
DRIFTS, CROSSCUTS	164,664,958	164,931,022	-0.2
RAISES, DECLINES	44,771,116	74,444,495	-39.9
STRIPPING	8,609,296	9,129,630	-5.7
OTHER	125,076,792	106,484,326	17.5
TOTAL EXPENDITURE	646,174,433	631,779,488	2.3

Source: Information and Statistics Section, MNDM

TOTAL EXPLORATION AND DEVELOPMENT
EXPENDITURES IN ONTARIO
1988p

	TOTAL	GENERAL EXPLORATION	MINESITE EXPLORATION	MINESITE DEVELOPMENT
	($)	($)	($)	($)
DIAMOND DRILLING	163,854,129	124,965,075	17,060,581	21,828,473
GEOCHEMICAL	11,391,129	10,625,198	765,931	
GEOLOGY	24,289,295	22,987,924	1,301,371	
GEOPHYSICAL	12,726,687	12,403,760	322,927	
AIRBORNE GEOPHYSICS	4,535,509	4,520,456	15,053	
ROCK WORK	79,154,109	56,183,378	22,970,731	
SHAFTS	7,101,413			7,101,413
DRIFTS, CROSSCUTS	164,664,958			164,664,958
RAISES, DECLINES	44,771,116			44,771,116
STRIPPING	8,609,296			8,609,296
OTHER	125,076,792	50,614,192	7,480,562	66,982,038
TOTAL EXPENDITURE	646,174,433	282,299,983	49,917,156	313,957,294

Source: Information and Statistics Section, MNDM

TOTAL EXPLORATION AND DEVELOPMENT
EXPENDITURES IN ONTARIO
BY MINING DIVISION
1988p VS 1987

	1988p ($)	1987 ($)	% Change
KENORA	17,764,341	23,518,580	-24.5
PATRICIA	37,491,206	35,438,121	5.8
RED LAKE	20,798,349	31,051,067	-33.0
THUNDER BAY	87,112,100	116,270,156	-25.1
PORCUPINE	96,195,771	107,719,132	-10.7
SAULT STE MARIE	144,529,250	113,058,723	27.8
LARDER LAKE	114,847,836	89,444,036	28.4
SUDBURY	108,279,830	98,818,916	9.6
SOUTHERN ONTARIO	11,318,009	6,603,103	71.4
PROVINCE WIDE	7,837,741	9,857,654	-20.5
TOTAL EXPENDITURE	646,174,433	631,779,488	2.3

Source: Information and Statistics Section, MNDM

TOTAL EXPLORATION AND DEVELOPMENT EXPENDITURES
BY MINING DIVISION IN ONTARIO
1987-1988p
(in Current Dollars)

MINING DIVISION	GENERAL EXPLORATION			MINESITE EXPLORATION			MINESITE DEVELOPMENT		
	1988p ($)	1987 ($)	% CHANGE	1988p ($)	1987 ($)	% CHANGE	1988p ($)	1987 ($)	% CHANGE
KENORA	16,358,579	22,781,390	-28.2	1,405,762	537,597	161.5	0	199,593	-100.0
PATRICIA	16,670,889	22,615,688	-26.3	2,749,396	5,192,972	-47.1	18,070,921	7,629,461	136.9
RED LAKE	12,475,524	23,038,443	-45.8	339,360	309,463	9.7	7,983,465	7,703,161	3.6
THUNDER BAY	48,623,016	45,703,333	6.4	3,902,856	8,831,916	-55.8	34,586,228	61,734,907	-44.0
PORCUPINE	48,990,419	47,251,215	3.7	7,288,547	3,563,627	104.5	39,916,805	56,904,290	-29.9
SAULT STE. MARIE	34,809,241	12,261,794	183.9	22,126,150	19,518,584	13.4	87,593,859	81,278,345	7.8
LARDER LAKE	72,984,424	44,715,470	63.2	7,154,173	5,295,911	35.1	34,709,239	39,432,655	-12.0
SUDBURY	15,021,142	11,375,319	32.1	4,633,712	2,330,488	98.8	88,624,976	85,113,109	4.1
SOUTHERN ONTARIO	8,529,008	4,181,293	104.0	317,200	356,617	11.1	2,471,801	2,065,193	19.7
PROVINCE WIDE	7,837,741	9,857,654	-20.5	0	0		0	0	
TOTAL EXPENDITURE	282,299,983	243,781,599	15.8	49,917,156	45,937,175	8.7	313,957,294	342,060,714	-8.2

Source: Information and Statistics Section, MNDM

GENERAL EXPLORATION EXPENDITURES
IN NORTHWEST REGION
1988p

	KENORA	PATRICIA	RED LAKE	THUNDER BAY	TOTAL
	($)	($)	($)	($)	($)
DIAMOND DRILLING	5,750,831	8,697,682	7,709,790	22,569,637	44,727,940
GEOCHEMCIAL	667,807	934,599	360,243	3,427,027	5,389,676
GEOLOGY	1,243,681	3,008,694	1,615,070	4,138,837	10,006,282
GEOPHYSICAL	816,568	1,376,933	572,823	2,486,670	5,252,994
AIRBORNE GEOPHYSICS	332,050	504,453	108,318	740,102	1,684,923
ROCK WORK	5,072,143	87,271	312,631	5,647,227	11,119,272
OTHER	2,475,499	2,061,257	1,796,649	9,613,516	15,946,921
TOTAL EXPENDITURE	16,358,579	16,670,889	12,475,524	48,623,016	94,128,008

Source: Information and Statistics Section, MNDM

GENERAL EXPLORATION EXPENDITURES
IN NORTHEAST REGION
1988p

	LARDER LAKE	PORCUPINE	S. S. MARIE	SUDBURY	TOTAL
	($)	($)	($)	($)	($)
DIAMOND DRILLING	30,575,871	19,387,050	14,731,088	10,642,523	75,336,532
GOECHEMICAL	1,048,060	655,749	1,529,947	891,262	4,125,018
GEOLOGY	3,970,982	3,123,156	2,075,310	1,043,751	10,213,199
GEOPHYSICAL	2,521,258	1,614,954	1,254,177	765,089	6,155,478
AIRBORNE GEOPHYSICS	348,875	883,938	217,287	510,976	1,961,076
ROCK WORK	24,652,502	12,903,228	5,432,284	137,763	43,125,777
OTHER	9,866,876	10,422,344	9,569,148	1,029,778	30,888,146
TOTAL EXPENDITURE	72,984,424	48,990,419	34,809,241	15,021,142	171,805,226

Source: Information and Statistics Section, MNDM

GENERAL EXPLORATION EXPENDITURES
IN SOUTHERN REGION AND UNDEFINED REGION
1988p

	SOUTHERN ONTARIO	UNDEFINED REGION	TOTAL
	($)	($)	($)
DIAMOND DRILLING	3,603,340	1,297,263	4,900,603
GEOCHEMICAL	548,123	562,381	1,110,504
GEOLOGY	1,444,641	1,323,802	2,768,443
GEOPHYSICAL	133,451	861,837	995,288
AIRBORNE GEOPHYSICS	0	874,457	874,457
ROCK WORK	1,881,205	57,124	1,938,329
OTHER	918,248	2,860,877	3,779,125
TOTAL EXPENDITURE	8,529,008	7,837,741	16,366,749

Source: Information and Statistics Section, MNDM

MINESITE EXPLORATION EXPENDITURES
IN NORTHWEST REGION
1988p

	KENORA	PATRICIA	RED LAKE	THUNDER BAY	TOTAL
	($)	($)	($)	($)	($)
DIAMOND DRILLING	498,681	2,167,839	154,566	2,167,039	4,988,125
GEOCHEMICAL	0	110,283	23,148	2,900	136,331
GEOLOGY	59,678	59,076	34,498	56,300	209,552
GEOPHYSICAL	0	136,537	990	179,900	317,427
AIRBORNE GEOPHYSICS	0	0	53	0	53
ROCK WORK	770,523	48,046	0	0	818,569
OTHER	76,880	227,615	126,105	1,496,717	1,927,317
TOTAL EXPENDITURE	1,405,762	2,749,396	339,360	3,902,856	8,397,374

Source: Information and Statistics Section, MNDM

MINESITE EXPLORATION EXPENDITURES
IN NORTHEAST REGION
1988p

	LARDER LAKE	PORCUPINE	S S MARIE	SUDBURY	TOTAL
	($)	($)	($)	($)	($)
DIAMOND DRILLING	3,579,021	1,967,781	3,527,000	2,794,084	11,867,886
GEOCHEMICAL	0	0	618,600	0	618,600
GEOLOGY	495,685	270,134	245,000	0	1,010,819
GEOPHYSICAL	0	0	5,500	0	5,500
AIRBORNE GEOPHYSICS	0	0	0	0	0
ROCK WORK	556,539	2,866,828	17,168,000	1,560,795	22,152,162
OTHER	2,522,928	2,183,804	562,050	278,833	5,547,615
TOTAL EXPENDITURE	7,154,173	7,288,547	22,126,150	4,633,712	41,202,582

Source: Information and Statistics Section, MNDM

MINESITE EXPLORATION EXPENDITURES
IN SOUTHERN REGION
1988p

	SOUTHERN ONTARIO ($)
DIAMOND DRILLING	204,570
GEOCHEMICAL	11,000
GEOLOGY	81,000
GEOPHYSICAL	0
AIRBORNE GEOPHYSICS	15,000
ROCK WORK	0
OTHER	5,630
TOTAL EXPENDITURE	317,200

Source: Information and Statistics Section, MNDM

MINESITE DEVELOPMENT EXPENDITURES
IN NORTHWEST REGION
1988p

	KENORA	PATRICIA	RED LAKE	THUNDER BAY	TOTAL
	($)	($)	($)	($)	($)
DIAMOND DRILLING	0	1,204,751	1,732,425	1,824,334	4,761,510
SHAFT	0	4,305,570	0	0	4,305,570
DRIFTS AND CROSSCUTS	0	7,119,065	3,636,873	20,572,094	31,328,032
RAISES AND DECLINES	0	1,666,374	1,884,621	8,572,704	12,123,699
STRIPPING	0	0	0	0	
OTHER	0	3,775,161	729,546	3,617,096	8,121,803
TOTAL EXPENDITURE	0	18,070,921	7,983,465	34,586,228	60,640,614

Source: Information and Statistics Section, MNDM

MINESITE DEVELOPMENT EXPENDITURES
IN NORTHEAST REGION
1988p

	LARDER LAKE	PORCUPINE	S. S. MARIE	SUDBURY	TOTAL
	($)	($)	($)	($)	($)
DIAMOND DRILLING	3,327,453	2,795,809	5,790,111	5,115,750	17,029,123
SHAFT	0	0	2,090,000	705,843	2,795,843
DRIFTS AND CROSSCUTS	10,200,772	21,184,243	64,077,706	37,874,205	133,336,926
RAISES AND DECLINES	2,163,937	7,214,219	10,470,194	11,799,067	31,647,417
STRIPPING	3,824,671	0	141,759	4,246,566	8,212,996
OTHER	15,192,406	8,722,534	5,024,089	28,883,545	57,822,574
TOTAL EXPENDITURE	34,709,239	39,916,805	87,593,859	88,624,976	250,844,879

Source: Information and Statistics Section, MNDM

MINESITE DEVELOPMENT EXPENDITURES
IN SOUTHERN REGION
1988p

	SOUTHERN ONTARIO
	($)
DIAMOND DRILLING	37,840
SHAFT	0
DRIFTS AND CROSSCUTS	0
RAISES AND DECLINES	1,000,000
STRIPPING	396,300
OTHER	1,037,661
TOTAL EXPENDITURE	2,471,801

Source: Information and Statistics Section, MNDM

TOTAL MINING CLAIMS, ASSESSMENT WORK AND
TOTAL DIAMOND DRILLING IN ONTARIO
1981 - 1988

YEAR	NUMBER OF MINING CLAIMS			ASSESSMENT WORK (Days)	TOTAL DIAMOND DRILLING (Metres)
	RECORDED	CANCELLED	GOOD STANDING		
1988	36,735	34,785	171,269	4,673,845	2,496,683
1987	58,484	25,442	168,658	4,177,397	2,005,502
1986	60,564	54,554	136,804	2,786,674	1,256,046
1985	28,576	43,570	127,770	2,946,218	663,081
1984	40,371	40,239	142,359	3,646,168	350,184
1983	70,314	16,146	142,630	2,459,334	565,655
1982	33,340	26,173	89,207	1,735,836	172,683
1981	33,023	15,994	81,841	1,615,183	223,270

Source: Information and Statistics Section, MNDM

Table 1 General Exploration Expenditures for 1988

Summary by Commodity

Mining Division/ Type of Mineral Sought	Drilling		Nature and Cost of Work Performed						
	Depth (meters)	Cost ($)	Geochemical ($)	Geology ($)	Geophysical ($)	Airborne Geophysical ($)	Rock Works ($)	Other Works ($)	Total ($)
KENORA Mining Division									
AU	52,880	4,860,265	548,145	1,051,378	668,921	285,050	4,678,094	2,099,723	14,191,576
AU, AG	1,360	134,316	13,195	46,633	0	0	278,608	144,294	617,046
AU, BM	1,283	82,310	0	964	0	46,000	0	22,080	151,354
AU, DI	0	0	46,593	0	0	0	0	97,568	144,161
AU, PGM	1,112	116,240	13,775	31,792	21,577	0	270	51,859	235,513
BM	5,103	441,200	32,953	79,908	102,455	1,000	700	23,052	681,268
GP	0	0	0	10,298	12,640	0	114,471	0	137,409
NI, CU	0	0	46	22,708	975	0	0	0	23,729
PGM	1,111	116,500	13,100	0	10,000	0	0	36,923	176,523
KENORA Totals	62,849	5,750,831	667,807	1,243,681	816,568	332,050	5,072,143	2,475,499	16,358,579
LARDER LAKE Mining Division									
AG	6,964	610,007	42,886	204,772	46,028	0	613,045	603,736	2,120,474
AU	411,519	28,459,225	956,346	3,380,883	2,031,620	263,134	23,978,822	9,030,351	68,100,381
AU, AG	40	960	0	0	0	0	0	83,904	84,864
AU, BM	15,043	1,366,255	2,684	215,380	212,696	0	14,635	10,450	1,822,100
AU, PGM	0	0	0	0	0	0	0	4,000	4,000
BM	1,654	139,424	46,144	159,947	230,914	85,741	25,000	122,435	809,605
PGM	0	0	0	10,000	0	0	10,000	10,000	30,000
VARIOUS	0	0	0	0	0	0	11,000	2,000	13,000
LARDER LAKE Totals	435,220	30,575,871	1,048,060	3,970,982	2,521,258	348,875	24,652,502	9,866,876	72,984,424

Table 1 General Exploration Expenditures for 1988

Summary by Commodity

Mining Division/ Type of Mineral Sought	Drilling		Nature and Cost of Work Performed						
	Depth (meters)	Cost ($)	Geochemical ($)	Geology ($)	Geophysical ($)	Airborne Geophysical ($)	Rock Works ($)	Other Works ($)	Total ($)
PATRICIA Mining Division									
AU	58,210	5,552,336	549,084	2,793,036	1,017,915	459,649	87,271	1,787,928	12,247,219
AU, BM	6,584	920,808	4,739	76,419	131,390	0	0	0	1,133,356
AU, DI	0	0	228,315	0	0	0	0	0	228,315
BM	17,179	1,796,106	64,059	110,077	225,128	44,804	0	76,044	2,316,218
IND MIN	0	0	0	0	0	0	0	500	500
PGM	5,713	428,432	88,402	29,162	2,500	0	0	196,785	745,281
PATRICIA Totals	87,686	8,697,682	934,599	3,008,694	1,376,933	504,453	87,271	2,061,257	16,670,889
PORCUPINE Mining Division									
AU	176,738	13,301,478	491,214	2,382,592	638,688	495,882	12,889,815	9,803,403	40,003,072
AU, AG	0	0	0	8,334	8,000	0	0	0	16,334
AU, BM	11,281	870,017	11,365	291,581	69,798	0	3,466	6,470	1,252,697
AU, DI	2,971	896,889	146,900	0	226,736	388,056	0	409,389	2,067,970
AU, PGM	609	2,917	0	0	0	0	0	0	2,917
BM	49,639	4,270,749	4,770	436,895	671,732	0	9,947	198,082	5,592,175
NI, CU	616	45,000	1,500	3,754	0	0	0	5,000	55,254
PORCUPINE Totals	241,854	19,387,050	655,749	3,123,156	1,614,954	883,938	12,903,228	10,422,344	48,990,419

Table 1 General Exploration Expenditures for 1988

Summary by Commodity

Mining Division/ Type of Mineral Sought	Drilling		Nature and Cost of Work Performed						
	Depth (meters)	Cost ($)	Geochemical ($)	Geology ($)	Geophysical ($)	Airborne Geophysical ($)	Rock Works ($)	Other Works ($)	Total ($)
RED LAKE Mining Division									
AG	704	47,285	0	0	0	0	68	121	47,474
AU	74,696	6,061,399	203,722	1,507,507	513,743	108,318	312,563	1,584,916	10,292,168
AU, BM	5,365	607,208	1,813	64,780	48,023	0	0	0	721,824
BM	0	0	7,200	7,732	9,000	0	0	0	23,932
PGM	13,253	993,898	147,508	35,051	2,057	0	0	211,612	1,390,126
RED LAKE Totals	94,018	7,709,790	360,243	1,615,070	572,823	108,318	312,631	1,796,649	12,475,524
SAULT STE. MARIE Mining Division									
AU	176,473	13,961,857	1,420,954	1,817,689	1,150,556	190,427	5,323,409	9,497,515	33,362,407
AU, AG	0	0	0	23,949	29,731	0	91,330	40,025	185,035
AU, BM	8,016	769,231	96,919	225,458	34,990	18,000	143	18,094	1,162,835
BM	0	0	12,074	8,214	38,900	8,860	17,402	13,514	98,964
SAULT STE. MARIE Totals	184,489	14,731,088	1,529,947	2,075,310	1,254,177	217,287	5,432,284	9,569,148	34,809,241

Table 1 General Exploration Expenditures for 1988 Summary by Commodity

Mining Division/ Type of Mineral Sought	Drilling		Nature and Cost of Work Performed						
	Depth (meters)	Cost ($)	Geochemical ($)	Geology ($)	Geophysical ($)	Airborne Geophysical ($)	Rock Works ($)	Other Works ($)	Total ($)
SOUTHERN ONTARIO Mining Division									
AU	19,151	1,721,908	51,251	193,302	475	0	1,815	424,085	2,392,836
AU, BM	0	0	0	0	360	0	0	0	360
BM	0	0	13,993	36,484	1,500	0	220,029	8,876	280,882
GP	23,100	1,783,372	285,060	941,409	131,116	0	1,654,361	361,510	5,156,828
IND MIN	1,269	98,060	179,588	242,575	0	0	5,000	123,777	649,000
REE	0	0	18,231	30,871	0	0	0	0	49,102
SOUTHERN ONTARIO Totals	43,520	3,603,340	548,123	1,444,641	133,451	0	1,881,205	918,248	8,529,008
SUDBURY Mining Division									
AG	726	40,718	0	0	0	0	0	19,695	60,413
AU	10,985	832,657	68,030	214,315	165,500	70,291	65,233	259,538	1,675,564
AU, BM	0	0	101,000	5,600	600	5,000	1,000	15,500	128,700
AU, PGM	2,147	259,281	141,823	91,170	146,359	245,985	30,830	665,892	1,581,340
BM	62,279	5,078,767	162,564	485,956	199,615	90,000	4,000	55,045	6,075,947
IND MIN	0	0	50	50	0	0	0	5,708	5,808
NI, CU	32,723	4,296,100	414,995	188,460	243,620	90,000	36,700	8,400	5,278,275
PGM	2,000	135,000	0	0	0	0	0	0	135,000
REE	0	0	0	0	9,395	0	0	0	9,395
VARIOUS	0	0	2,800	58,200	0	9,700	0	0	70,700
SUDBURY Totals	110,859	10,642,523	891,262	1,043,751	765,089	510,976	137,763	1,029,778	15,021,142

Table 1 General Exploration Expenditures for 1988

Summary by Commodity

Mining Division/ Type of Mineral Sought	Drilling		Nature and Cost of Work Performed						
	Depth (meters)	Cost ($)	Geochemical ($)	Geology ($)	Geophysical ($)	Airborne Geophysical ($)	Rock Works ($)	Other Works ($)	Total ($)
THUNDER BAY Mining Division									
AG	0	0	0	0	0	0	0	40,000	40,000
AMY	0	0	0	0	0	0	2,580	1,602	4,182
AU	170,206	17,495,097	2,788,364	3,494,803	1,929,253	614,678	3,362,713	5,603,518	35,288,426
AU, AG	1,500	220,000	0	39,760	7,680	1,338	19,000	48,325	336,103
AU, BM	42,243	2,849,036	231,836	160,580	356,557	0	2,198,469	2,849,963	8,646,441
AU, DI	0	0	61,557	5,146	0	0	0	43,990	110,693
AU, PGM	1,232	46,798	30,788	37,503	58,091	0	0	62,253	235,433
BM	8,204	586,050	44,225	86,839	53,857	124,086	0	112,309	1,007,366
IND MIN	0	0	0	2,000	9,600	0	64,465	11,375	87,440
PGM	13,634	1,372,656	257,233	312,206	71,632	0	0	668,821	2,682,548
SI	0	0	0	0	0	0	0	10,000	10,000
U,Y	0	0	13,024	0	0	0	0	0	13,024
VARIOUS	0	0	0	0	0	0	0	161,360	161,360
THUNDER BAY Totals	237,019	22,569,637	3,427,027	4,138,837	2,486,670	740,102	5,647,227	9,613,516	48,623,016

Table 1 General Exploration Expenditures for 1988
Summary by Commodity

Mining Division/ Type of Mineral Sought	Drilling		Nature and Cost of Work Performed						
	Depth (meters)	Cost ($)	Geochemical ($)	Geology ($)	Geophysical ($)	Airborne Geophysical ($)	Rock Works ($)	Other Works ($)	Total ($)
Undefined Mining Division									
AU	35,931	930,678	165,864	450,446	604,676	97,456	57,124	2,273,556	4,579,800
AU, BM	287	28,784	160,884	393,017	2,564	0	0	60,572	645,821
AU, DI	0	0	4,730	30,000	63,572	777,001	0	124,691	999,994
AU, PGM	100	776	145	32,014	62	0	0	0	32,997
BM	1,639	230,500	117,700	220,100	182,100	0	0	82,100	832,500
VARIOUS	1,195	106,525	113,058	198,225	8,863	0	0	319,958	746,629
Undefined Totals	39,152	1,297,263	562,381	1,323,802	861,837	874,457	57,124	2,860,877	7,837,741
GRAND TOTALS	1,536,665	124,965,075	10,625,198	22,987,924	12,403,760	4,520,456	56,183,378	50,614,192	282,299,983

Table 2 Minesite Field Exploration Expenditures for 1988 Summary by Commodity

Mining Division/ Type of Mineral Sought	Drilling		Nature and Cost of Work Performed						
	Depth (meters)	Cost ($)	Geochemical ($)	Geology ($)	Geophysical ($)	Airborne Geophysical ($)	Rock Works ($)	Other Works ($)	Total ($)
KENORA Mining Division									
AU	6,029	498,681	0	59,678	0	0	770,523	76,880	1,405,762
KENORA Totals	6,029	498,681	0	59,678	0	0	770,523	76,880	1,405,762
LARDER LAKE Mining Division									
AG	9,040	671,493	0	0	0	0	0	0	671,493
AU	161,605	2,879,586	0	495,685	0	0	556,539	2,522,928	6,454,738
AU, BM	362	27,942	0	0	0	0	0	0	27,942
LARDER LAKE Totals	171,007	3,579,021	0	495,685	0	0	556,539	2,522,928	7,154,173
PATRICIA Mining Division									
AU	29,798	1,858,290	105,428	54,607	93,000	0	48,046	218,344	2,377,715
BM	3,464	309,549	4,855	4,469	43,537	0	0	9,271	371,681
PATRICIA Totals	33,262	2,167,839	110,283	59,076	136,537	0	48,046	227,615	2,749,396

Table 2 Minesite Field Exploration Expenditures for 1988 Summary by Commodity

Mining Division/ Type of Mineral Sought	Drilling		Nature and Cost of Work Performed						
	Depth (meters)	Cost ($)	Geochemical ($)	Geology ($)	Geophysical ($)	Airborne Geophysical ($)	Rock Works ($)	Other Works ($)	Total ($)
PORCUPINE Mining Division									
AU	79,364	808,646	0	270,134	0	0	2,143,963	2,183,804	5,406,547
BN	16,137	1,159,135	0	0	0	0	722,865	0	1,882,000
PORCUPINE Totals	95,501	1,967,781	0	270,134	0	0	2,866,828	2,183,804	7,288,547
RED LAKE Mining Division									
AU	6,182	154,566	23,148	34,498	990	53	0	126,105	339,360
RED LAKE Totals	6,182	154,566	23,148	34,498	990	53	0	126,105	339,360
SAULT STE. MARIE Mining Division									
AU	64,703	3,527,000	618,600	245,000	5,500	0	17,168,000	562,050	22,126,150
SAULT STE. MARIE Totals	64,703	3,527,000	618,600	245,000	5,500	0	17,168,000	562,050	22,126,150
SOUTHERN ONTARIO Mining Division									
CC, MS	616	29,570	0	0	0	0	0	2,430	32,000
GP	0	0	0	0	0	0	0	3,200	3,200
IND MIN	3,488	175,000	11,000	81,000	0	15,000	0	0	282,000
SOUTHERN ONTARIO Totals	4,104	204,570	11,000	81,000	0	15,000	0	5,630	317,200

Table 2 Minesite Field Exploration
Expenditures for 1988
Summary by Commodity

Mining Division/ Type of Mineral Sought	Drilling		Nature and Cost of Work Performed						
	Depth (meters)	Cost ($)	Geochemical ($)	Geology ($)	Geophysical ($)	Airborne Geophysical ($)	Rock Works ($)	Other Works ($)	Total ($)
SUDBURY Mining Division									
AG	6,928	584,136	0	0	0	0	0	0	584,136
AU	0	0	0	0	0	0	200,000	278,833	478,833
BM	6,156	760,363	0	0	0	0	486,252	0	1,246,615
NI,CU	13,078	1,449,585	0	0	0	0	874,543	0	2,324,128
SUDBURY Totals	26,162	2,794,084	0	0	0	0	1,560,795	278,833	4,633,712
THUNDER BAY Mining Division									
AU	865	64,817	0	0	0	0	0	15,000	79,817
AU,BM	0	0	0	0	0	0	0	6,000	6,000
BM	25,344	2,102,222	2,900	56,300	179,900	0	0	1,475,717	3,817,039
THUNDER BAY Totals	26,209	2,167,039	2,900	56,300	179,900	0	0	1,496,717	3,902,856
GRAND TOTALS	433,159	17,060,581	765,931	1,301,371	322,927	15,053	22,970,731	7,480,562	49,917,156

Table 3 -Minesite Development
Expenditures for 1988
Summary by Commodity

Mining Division/ Type of Mineral Sought	Drilling Depth (meters)	Drilling Cost ($)	Shaft Depth (meters)	Shaft Cost ($)	Drifts and Crosscuts Length (meters)	Drifts and Crosscuts Cost ($)	Raises and Declines Length (meters)	Raises and Declines Cost ($)	Stripping ($)	Other Works ($)	Total ($)
LARDER LAKE Mining Division											
AG	0	0	0	0	1,573	600,430	292	478,909	0	0	1,079,339
AU	81,122	3,327,453	0	0	7,963	9,600,342	2,140	1,685,028	0	15,192,406	29,805,229
PE	0	0	0	0	0	0	0	0	3,824,671	0	3,824,671
LARDER LAKE Totals	81,122	3,327,453	0	0	9,536	10,200,772	2,432	2,163,937	3,824,671	15,192,406	34,709,239
PATRICIA Mining Division											
AU	2,523	63,074	270	4,305,570	1,991	3,394,543	738	1,476,000	0	3,775,161	13,014,348
BM	22,194	1,141,677	0	0	5,730	3,724,522	755	190,374	0	0	5,056,573
PATRICIA Totals	24,717	1,204,751	270	4,305,570	7,721	7,119,065	1,493	1,666,374	0	3,775,161	18,070,921
PORCUPINE Mining Division											
AU	66,947	2,141,769	0	0	12,906	12,945,739	2,264	2,026,881	0	8,619,067	25,733,456
BM	18,823	654,040	0	0	7,936	8,238,504	6,024	5,187,338	0	103,467	14,183,349
PORCUPINE Totals	85,770	2,795,809	0	0	20,842	21,184,243	8,288	7,214,219	0	8,722,534	39,916,805

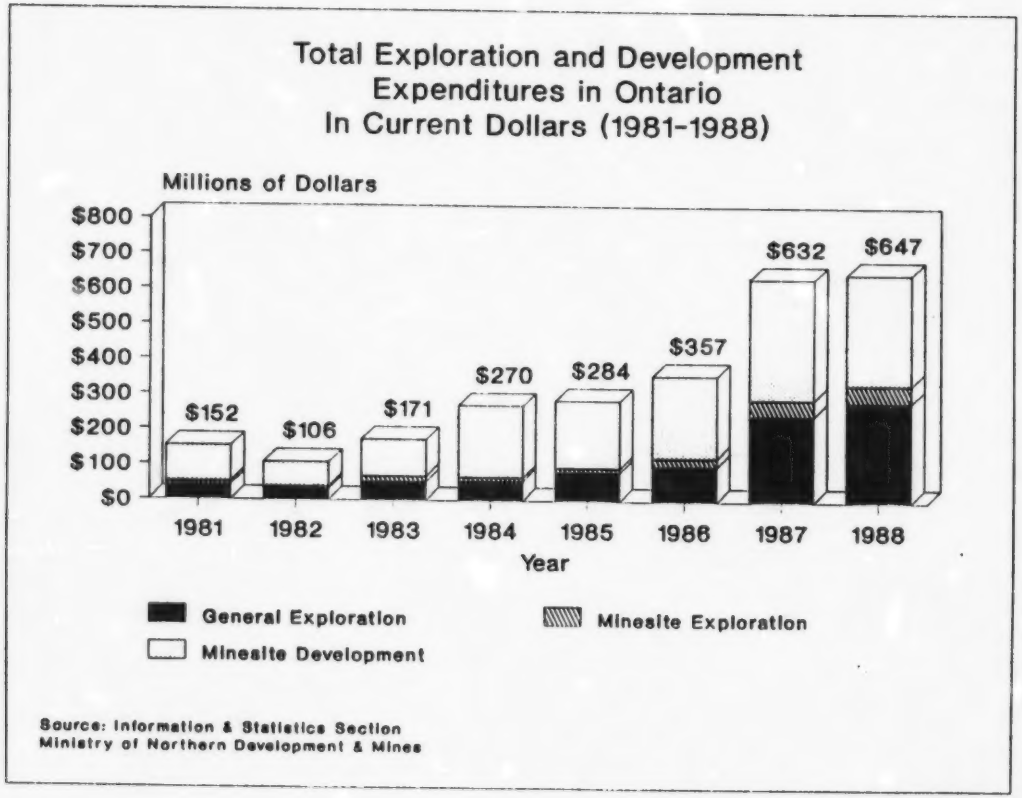
Table 3 -Minesite Development
Expenditures for 1988
Summary by Commodity

Mining Division/ Type of Mineral Sought	Drilling Depth (meters)	Drilling Cost ($)	Shaft Depth (meters)	Shaft Cost ($)	Drifts and Crosscuts Length (meters)	Drifts and Crosscuts Cost ($)	Raises and Declines Length (meters)	Raises and Declines Cost ($)	Stripping ($)	Other Works ($)	Total ($)
RED LAKE Mining Division											
AU	49,690	1,732,425	0	0	21,335	3,636,873	2,622	1,884,621	0	729,546	7,983,465
RED LAKE Totals	49,690	1,732,425	0	0	21,335	3,636,873	2,622	1,884,621	0	729,546	7,983,465
SAULT STE. MARIE Mining Division											
AU	86,180	5,235,751	60	2,090,000	3,045	4,301,807	1,380	3,378,193	141,759	4,895,605	20,043,115
FE	0	4,155	0	0	2,333	1,431,895	236	131,512	0	0	1,567,562
U,Y	13,180	550,205	0	0	39,363	58,344,004	4,079	6,960,489	0	128,484	65,983,182
SAULT STE. MARIE Totals	99,360	5,790,111	60	2,090,000	44,741	64,077,706	5,695	10,470,194	141,759	5,024,089	87,593,859
SOUTHERN ONTARIO Mining Division											
CC,NS	574	28,340	0	0	0	0	0	0	0	3,660	32,000
IND MIN	1,800	9,500	0	0	300	0	0	1,000,000	396,300	0	1,405,800
NACL	0	0	0	0	0	0	0	0	0	1,034,001	1,034,001
SOUTHERN ONTARIO Totals	2,374	37,840	0	0	300	0	0	1,000,000	396,300	1,037,661	2,471,801

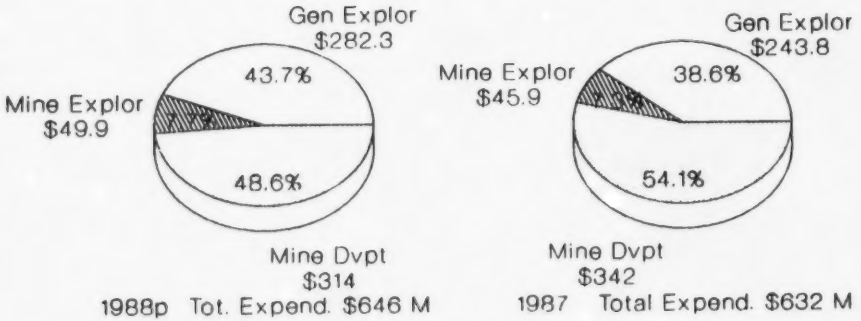
Table 3 -Minesite Development
Expenditures for 1988
Summary by Commodity

Mining Division/ Type of Mineral Sought	Drilling Depth (meters)	Drilling Cost ($)	Shaft Depth (meters)	Shaft Cost ($)	Drifts and Crosscuts Length (meters)	Drifts and Crosscuts Cost ($)	Raises and Declines Length (meters)	Raises and Declines Cost ($)	Stripping ($)	Other Works ($)	Total ($)
SUDBURY Mining Division											
AG	0	0	315	705,843	937	916,814	137	172,063	0	0	1,794,720
AU	9,844	740,000	0	0	1,548	1,548,000	1,836	1,836,000	0	0	4,124,000
BM	26,150	1,243,000	0	0	12,872	19,636,950	4,165	6,163,868	0	26,745,900	53,789,718
PE	46,195	301,103	0	0	0	0	0	0	4,246,566	38,213	4,585,882
NI,CU	66,030	2,831,647	0	0	4,502	15,772,441	917	3,627,136	0	1,154,868	23,386,092
SI	0	0	0	0	0	0	0	0	0	944,564	944,564
SUDBURY Totals	148,219	5,115,750	315	705,843	19,859	37,874,205	7,055	11,799,067	4,246,566	28,883,545	88,624,976
THUNDER BAY Mining Division											
AU	30,407	1,686,934	0	0	8,905	18,017,008	3,926	7,744,402	0	3,008,770	30,457,114
BM	5,200	137,400	0	0	4,405	2,555,086	1,369	828,302	0	608,326	4,129,114
THUNDER BAY Totals	35,607	1,824,334	0	0	13,310	20,572,094	5,295	8,572,704	0	3,617,096	34,586,228
GRAND TOTALS	526,859	21,828,473	645	7,101,413	137,644	164,664,958	32,880	44,771,116	8,609,296	66,982,038	313,957,294

GRAPHS

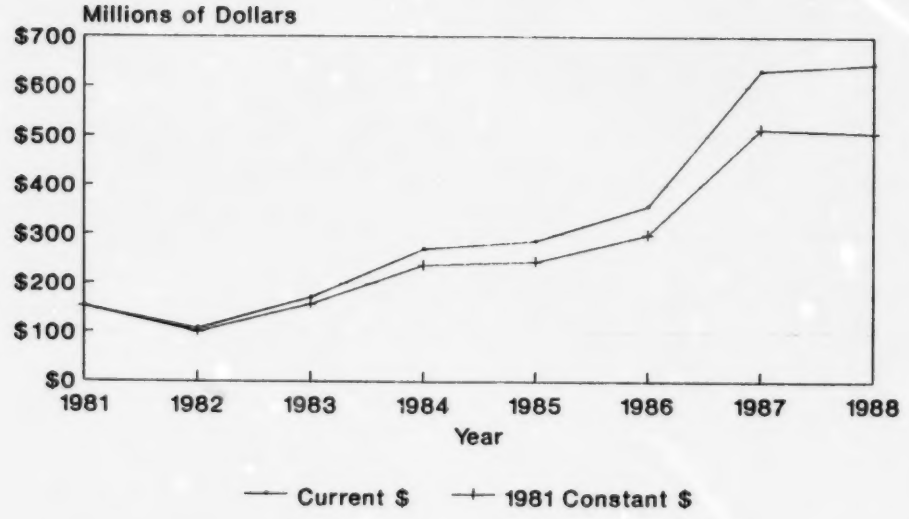

Total Exploration and Development
Expenditures in Ontario
In Current Dollars (1981-1988)
Millions of Dollars
$800
$700
$600
$500
$400
$300
$200
$100
$0
$152
$106
$171
$270
$284
$357
$632
$647
1981
1982
1983
1984
1985
1986
1987
1988
Year
General Exploration
Minesite Exploration
Minesite Development
Source: Information & Statistics Section
Ministry of Northern Development & Mines

Total Exploration and Development Expenditures in Ontario (1987-1988p) in Millions of Dollars



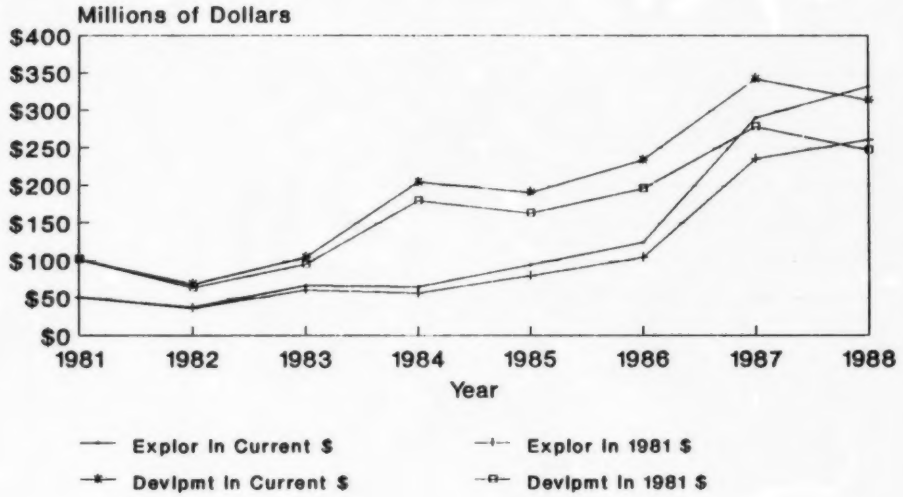
Source: Information & Statistics Section
Ministry of Northern Development & Mines

Total Exploration and Development Expenditures for Ontario In Current and 1981 Constant Dollars



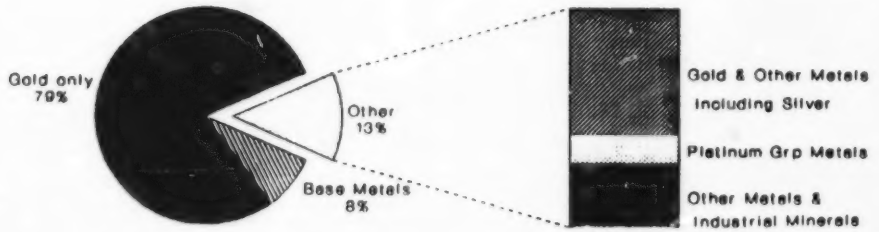
Source: Information & Statistics Section
Ministry of Northern Development & Mines

Exploration and Development Expenditures for Ontario in Current and 1981 Constant Dollars



Source: Information & Statistics Section
Ministry of Northern Development & Mines

General Exploration Expenditures by Metal or Mineral Sought in Ontario 1988p

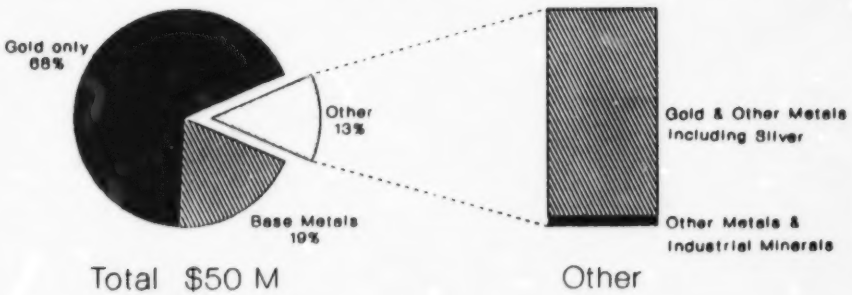


Total: $282 M

Other

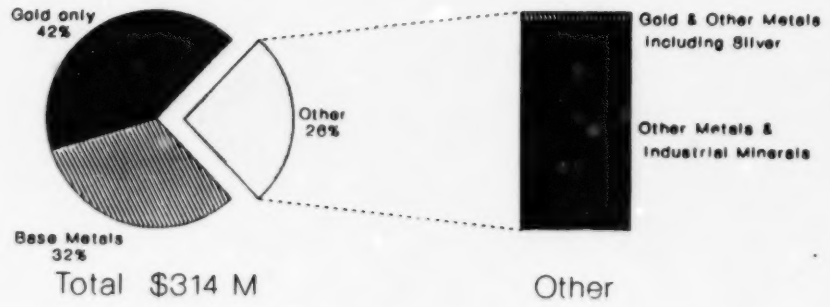
Source: Information & Statistics Section
Ministry of Northern Development & Mines

Minesite Exploration Expenditures by Metal or Mineral Sought in Ontario 1988p



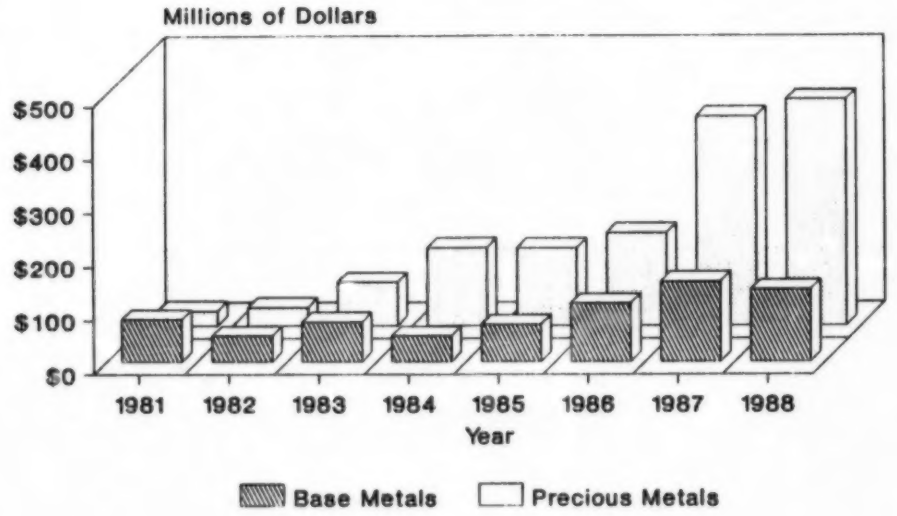
Source: Information & Statistics Section
Ministry of Northern Development & Mines

Minesite Development Expenditures by Metal or Mineral Sought in Ontario 1988p

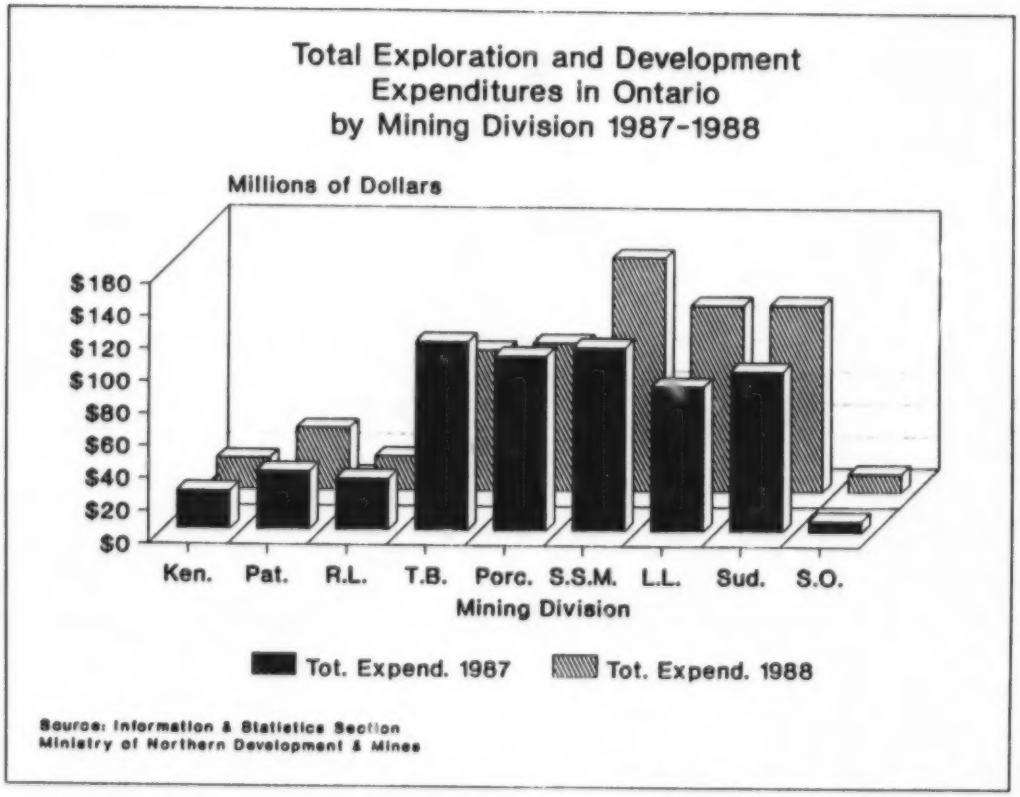


Source: Information & Statistics Section
Ministry of Northern Development & Mines

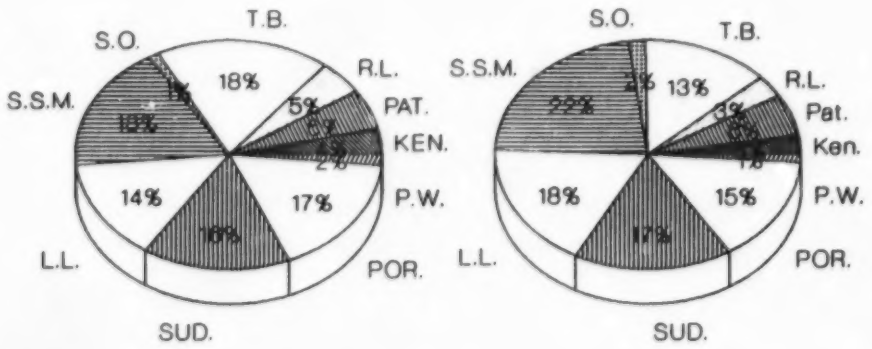
Exploration and Development Expenditures for Precious Metals and Base Metals in Ontario (1981-1988)



Source: Information & Statistics Section
Ministry of Northern Development & Mines

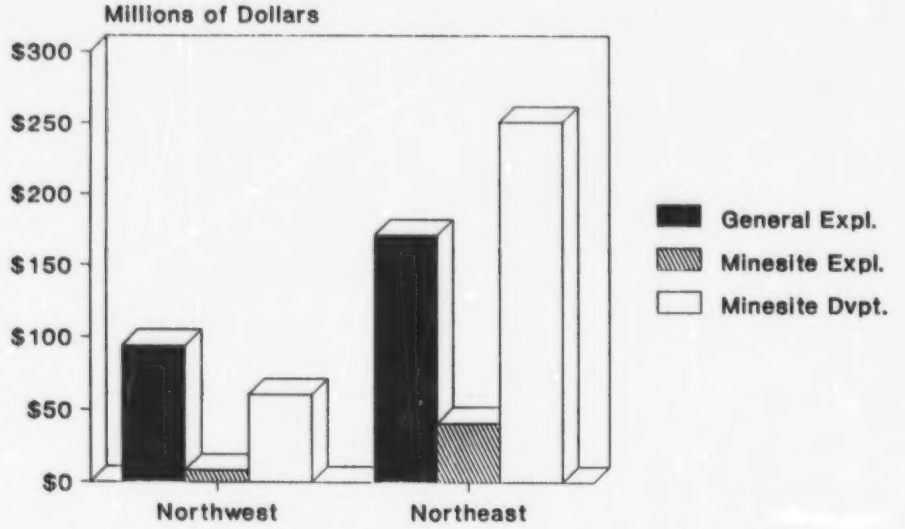

Total Exploration and Development
Expenditures in Ontario
by Mining Division 1987-1988
Millions of Dollars
$160
$140
$120
$100
$80
$60
$40
$20
$0
Ken.
Pat.
R.L.
T.B.
Porc.
S.S.M.
L.L.
Sud.
S.O.
Mining Division
Tot. Expend. 1987
Tot. Expend. 1988
Source: Information & Statistics Section
Ministry of Northern Development & Mines

Total Exploration and Development Expenditures in Ontario by Mining Division



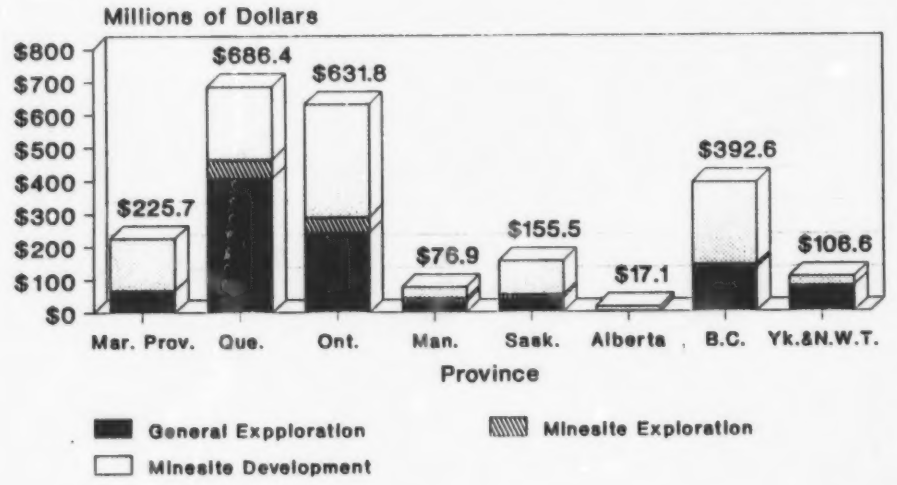
Source: Information & Statistics Section
Ministry of Northern Development & Mines

Exploration and Development Expenditures in Northwest & Northeast Regions 1988p



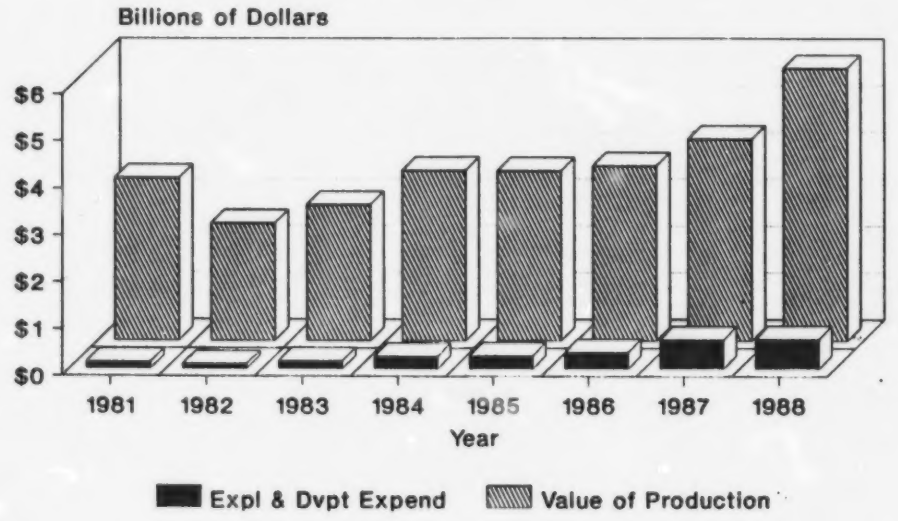
Source: Information & Statistics Section
Ministry of Northern Development & Mines

Total Exploration and Development Expenditures by Province in 1987



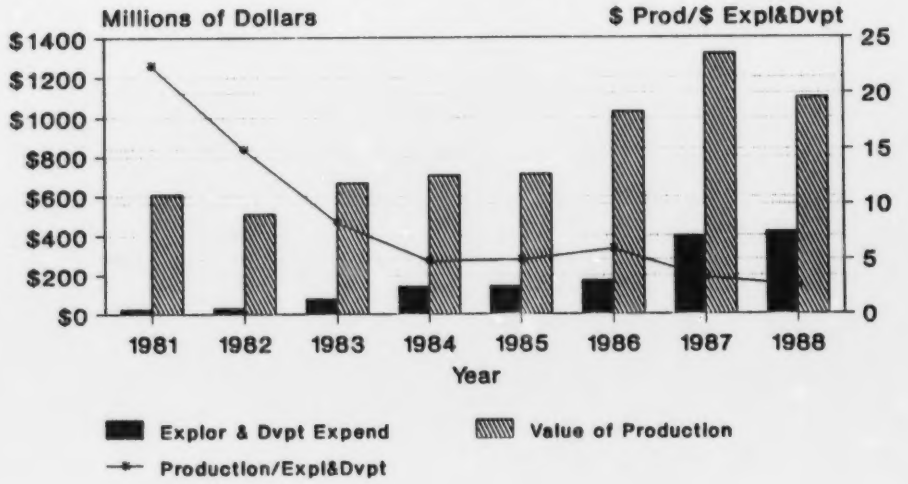
Source: Statistics Canada,
Que. Ministry of Energy and Resources,
Information & Statistics Section, MNDM

Value of Metal & Non-Metal Production v.s. Exploration & Development Expenditures in Ontario (1981-1988p)

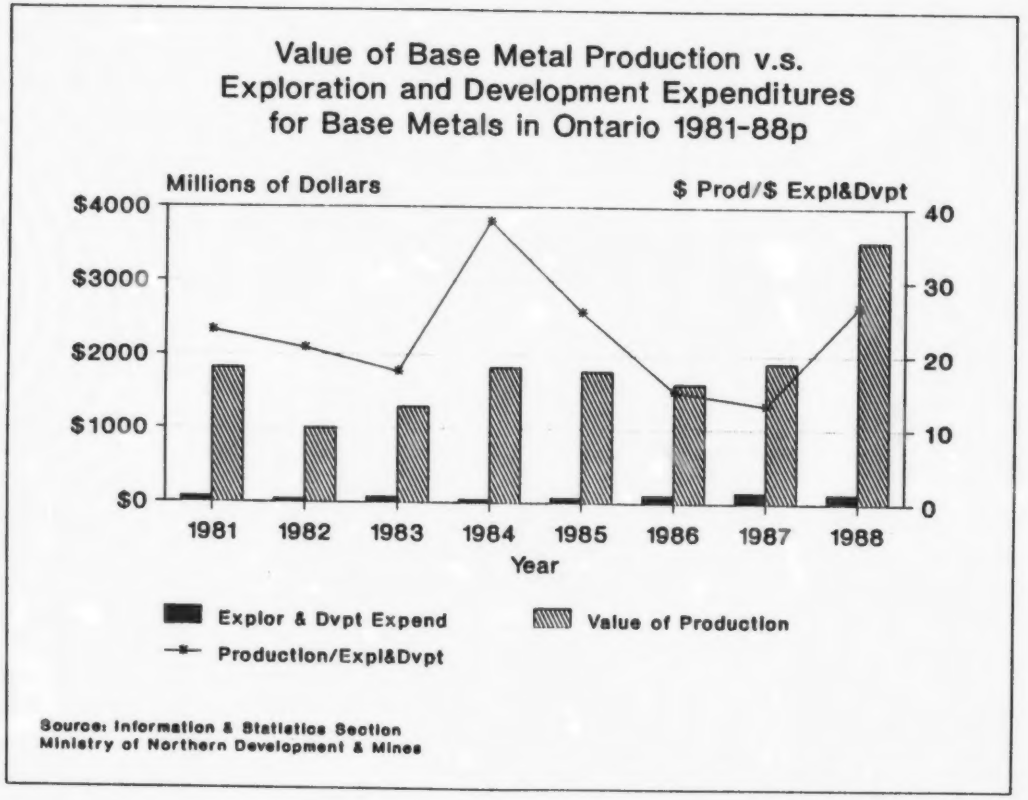


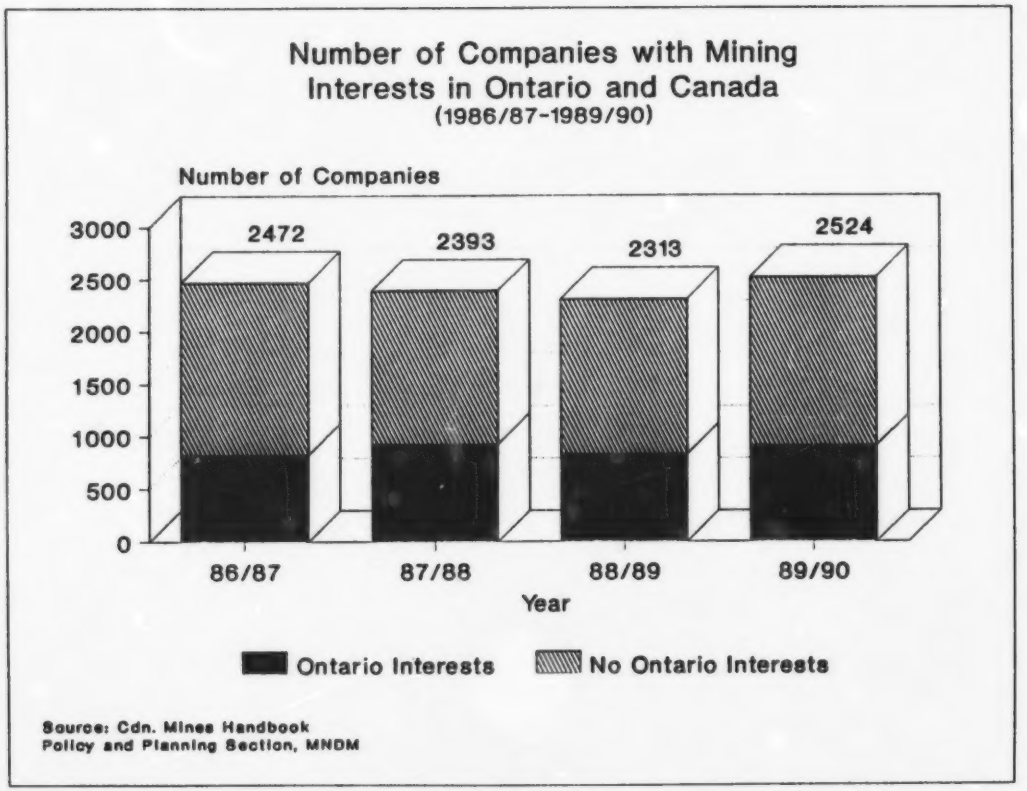
Source: Information & Statistics Section
Ministry of Northern Development & Mines

Value of Precious Metal Production v.s. Exploration and Development Expenditures for Precious Metals in Ontario 1981-88p



Production value for 1988 is understated
Source: Information & Statistics Section
Ministry of Northern Development & Mines


Value of Base Metal Production v.s.
Exploration and Development Expenditures
for Base Metals in Ontario 1981-88p
Millions of Dollars
$ Prod/$ Expl&Dvpt
$4000
$3000
$2000
$1000
$0
40
30
20
10
0
1981
1982
1983
1984
1985
1986
1987
1988
Year
Explor & Dvpt Expend
Value of Production
Production/Expl&Dvpt
Source: Information & Statistics Section
Ministry of Northern Development & Mines


Number of Companies with Mining Interests in Ontario and Canada
(1986/87-1989/90)
Number of Companies
3000
2500
2000
1500
1000
500
0
2472
2393
2313
2524
86/87
87/88
88/89
89/90
Year
Ontario Interests
No Ontario Interests
Source: Cdn. Mines Handbook
Policy and Planning Section, MNDM